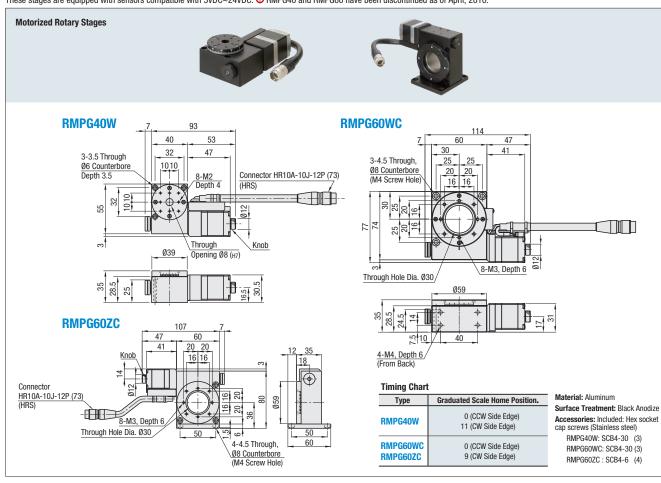
Positioning Stages

These stages are equipped with sensors compatible with 5VDC~24VDC. ORMPG40 and RMPG60 have been discontinued as of April, 2010.



Part N			Mechanical Specifications				Accuracy Specifications													
Part Nu		Sensor Voltage (V)	Positioning Stages	Travel	Weight	Motion Mechanism	Guides	Positioning	Moment Rigidity	Resolution	Maximum Speed	Repeatability	Load Capacity	Lost	Backlash	Parallelism		Surface Runout		
Type	No.		Surface (mm)	Distance	(kg)	(Reduction Ratio)	uuiuoo	Accuracy	("/N-cm)	(/Pulse)	/sec[5kHz]		(N)	Motion	Duoittuoii	(µm)	(µm)	(µm)		
RMPG	40W	DC5-24V	Ø 39	360°	0.4	Worm Gear (Reduction Ratio 1/120)		e 0.05°	0.74	0.006° (Full)	30°	±0.01°	+0.01° 29.4	0.05°	0.1° or Less	50	5	30		
	60WC		DC5-24V		Ø59	360°	0.6	Worm Gear (Reduction Ratio	Ball Bearings	or Less	0.84	0.004° 20°	20°	or Less		or Less	0.05°	or Less	or Less	or Less
	60ZC		900		0.7	1/180)	l line		0.04	(Full)	20		9.8		or Less					

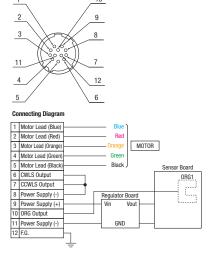


Part Number

Electrical Specifications

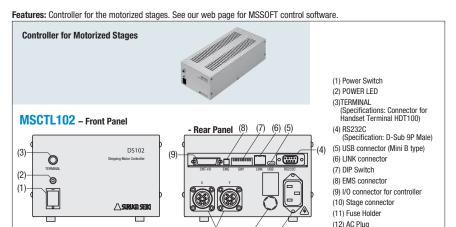
	Stage Type	RMPG40W	RMPG60WC	RMPG60ZC		
Motor	Туре	5-Phase Ste	pping Motor 0.75A / Pha	se (Oriental Motor Co., Ltd.)		
Wotor	Step Angle		0.72°	se (Oriental Motor Co., Ltd Electric Co., LTD.) Electric Co., LTD.) 20 (OMRON Corp.) 9% ss 24 VDC, 8 mA or less		
Connector	Part Number	HR1	0A-10J-12P (73) (Hirose	Electric Co., LTD.)		
Connector	Compatible Receptacle Connector	HR1	0A-10P-12S (73) (Hirose	se (Oriental Motor Co., Ltd. Electric Co., LTD.) Electric Co., LTD.) 20 (OMRON Corp.) 9% ss 24 VDC, 8 mA or less hen Load Current 2 mA)		
	Limit Switch	<u> </u>				
	Home Sensor	Provided				
	Near Home Sensor	Photomicro Sensor EE-SX4320 (OMRON Corp.) DC5-24V±10%				
	Part Number					
Sensor	Power Supply Voltage					
	Current Consumption	35 mA or less				
	Control Outputo	NPN Open Collector Output 5–24 VDC, 8 mA or less				
	Control Outputs	Residual	Voltage 0.3 V or less (W	hen Load Current 2 mA)		
	Output Logic	Detectino	(Dark): Output Transisto	or OFF (Non-Conducting)		

Pin-outs



[Motorized] Stage Peripherals

Controller for Motorized Stages / Handset Terminal / Cable for Motorized Stages



Part Ni		Part Number - (MS)			
Alterat	tions	MSCTL102 - MS			
Alteration		Change Diver Type			
Alteration		Change Diver Type			
Alteration Code		Change Diver Type MS			

Basic Specifications

Ex	ternal Dimensions	140(W) x 300(D) x 90(H) mm
Оре	erating Environment	0-40°C, 20-80% RH (No Condensation)
Sto	orage Environment	-20–60°C, 20–80% RH (No Condensation)
In	put Power Supply	AC100-240V±10%, 50/60 Hz

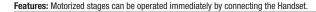
Driver Performance Specification

Driver Type	Normal (FULL/HALF Selectable)
Rated Current	0.75A / Phase
Eunotiono	

Functions

Homing Function	1 point/axis (freely configurable within effective range)			
Link	MSLINK (Link cable listed on our web) can externally control up to 3 stages, up to 6 Axis.			
Programming	8 programs (100 steps/1 program; starts and stops by controlling I/O signals)			
Teaching	64 points (positioning is controlled by I/O signals)			
Interpolation	2-axis linear interpolation (linear interpolation between linked stages not possible)			

O Sensor power supply voltage for MSCTL102 controller is 5VDC. 24VDC sensors cannot be operated from this controller. (though linear semi-interpolation between the linked stages is possible)







- Weight: 0.28 kg

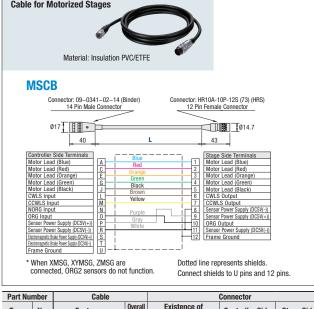
(supplied from a controller)

Part Number
MSCTL102
HDT100
MSCB4

Controller Performance Specifications

Number of Control Axis	2			
Coordinate Setting Range	±99,999,999 pls			
Speed Setting Range	1–999,999 pps			
Pulse Rate Rise Setting Range	1–9,999 pps			
Acceleration/Deceleration Time Range	1–9,999 ms			
Mechanical Limits	2 for each axis CW/CCW direction (Input logic reversal is possible)			
Near Home Detection	1 for each axis (Input logic reversal is possible)			
Home Detection	1 for each axis, 12 routine types (Input logic reversal is possible)			
	RS232C: 4,800–38,400 bps			
External Communication I/F	USB2.0: Compatible with Full/Low Speed only			
	Control I/O: 9 Inputs (24V DC Opto-coupler inputs), 12 Outputs (Open Collector Outputs)			
Max. Power Consumption	70W (When AC100V)			
Weight	2.2 kg			

Features: Selectable cable lengths for application specific requirements.



Pa	art Nun	nber	Cable		Connector				
T	Гуре	No.	Features	Overall Length	Existence of Connector	Controller Side	Stage Side		
		2		2m					
	l	4	Ordinary Cable	4m	Provided on both ends	09-0341-02-14(Binder)			
	[6		6m					
	L		Ordinary Cable	2m	Provided on one end				
	L		Provided on one end.	4m	(controller side).				
M	ISCB	6B	(The other end is loose wire.)	6m	(The other end is loose wire.)		HR10A-10P-12S(73)		
(for	r 12-pin)	2-R	Robot Cable	2m		09-0341-02-14(Binder)	(HRS)		
		4-R		4m	Provided on both ends				
	[6-R		6m					
		2B-R	Robot Cable	2m	Provided on one end				
		4B-R	Provided on one end.	4m	(controller side).	-			
		6B-R	(The other end is loose wire.)	6m	(The other end is loose wire.)				
	12-pin)	2B 4B 6B 2-R 4-R 6-R 2B-R 4B-R	Ordinary Cable Provided on one end. (The other end is loose wire.) Robot Cable Robot Cable Provided on one end.	4m 6m 2m 4m 6m 2m 4m 6m 2m 4m	Provided on one end (controller side). (The other end is loose wire.) Provided on both ends Provided on one end (controller side).	- 09-0341-02-14(Binder)	HR10A-10P- (HRS)		